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Mathematical Observation on the Homelessness Crisis through Mathematical Methods

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March 3, 2024

Contents

1 Introduction **4**

2 It was the Best of Times **5**
2.1 Restatement of the Problem 5
2.2 Assumptions and Justifications 5
2.3 Model Development 5
2.4 Results 5
2.5 Reflecting on the Model 5

3 It was the Worst of Times **6**
3.1 Restatement of the Problem 6
3.2 Assumptions and Justifications 6
3.3 Model Development 6
3.4 Results 6
3.5 Reflecting on the Model 6

4 Rising from this Abyss **7**
4.1 Restatement of the Problem 7
4.2 Assumptions and Justifications 7
4.3 Model Development 7
4.4 Results 7
4.5 Reflecting on the Model 7

1 Introduction

Understanding the housing shortage has become more important than ever, as rates of homelessness have reached unprecedented and potentially dire level[1]. Moving into the future, it is undeniably critical for promoting the general welfare of United States populations to best understand housing for influencing public policy across major cities in the United States. Thus, we have prepared the following mathematical models to best understand such a trend.

2 It was the Best of Times

2.1 Restatement of the Problem

The first problem asks us to develop a mathematical model to predict changes to the housing supply over the next 50 years in two cities of our choosing: Seattle, Washington; and Albequerque, New Mexico.

2.2 Assumptions and Justifications

2.3 Model Development

2.4 Results

2.5 Reflecting on the Model

3 It was the Worst of Times

3.1 Restatement of the Problem

3.2 Assumptions and Justifications

3.3 Model Development

3.4 Results

3.5 Reflecting on the Model

4 Rising from this Abyss

4.1 Restatement of the Problem

4.2 Assumptions and Justifications

4.3 Model Development

4.4 Results

4.5 Reflecting on the Model

References

[1] U.S. Census Bureau. Selected housing characteristics. U.S. Census Bureau. Accessed on 3 March 2024. https://data.census.gov/table/ACSDP1Y2010.DP04?q=albquerque%20city%20DP04&g=160XX00US5363000.